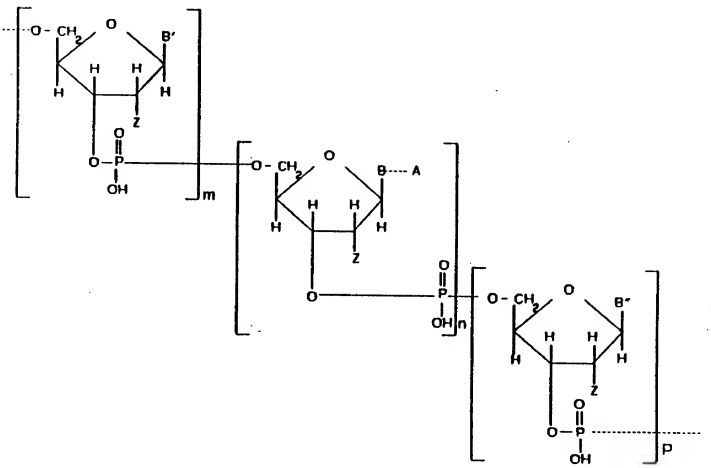

wherein each of B, B', B" represents a [purine,] 7-deazapurine, or pyrimidine moiety covalently bonded to the $C^{1'}$-position of the sugar moiety, provided that whenever B, B' or B" is [purine or] 7-deazapurine, the sugar moiety is attached at the N^9-position of the [purine or] 7-deazapurine, and whenever B, B' or B" is pyrimidine the sugar moiety is attached at the N^1-position of the pyrimidine;

wherein A comprises at least three carbon atoms and represents at least one component of a signalling moiety capable of producing a detectable signal;

wherein B and A are attached directly or indirectly through a linkage group, said linkage group not interfering substantially with the characteristic ability of said compound to hybridize with said nucleic acid or of A to be detected;

wherein [if B is purine, A is attached to the 8-position thereof,] if B is 7-deazapurine, A is attached to the 7-position thereof, and if B is pyrimidine, A is attached to the 5-position thereof;

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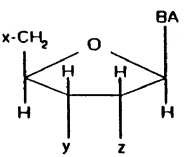
wherein m, n and p are integers, provided that m and p are not simultaneously 0 and provided further n is never 0; and

wherein z represents H- or HO-; and

(b) detecting said compound or compounds so as to detect said nucleic acid.

151. (Amended) A method for determining the presence or absence of cells having hormone receptor sites on the surfaces thereof in a sample, which method comprises the steps of:

(a) contacting under binding conditions said sample with a compound having the structure:



wherein B represents a [purine,] 7-deazapurine, or pyrimidine moiety covalently bonded to the $C^{1'}$-position of the sugar moiety, provided that when B is [purine or] 7-deazapurine, it is attached at the N^9-position of the [purine or] 7-deazapurine, and when B is pyrimidine, it is attached at the N^1-position;

wherein A comprises at least three carbon atoms and represents at least one component of a signalling moiety;

wherein B and A are attached together directly or indirectly through a linkage group;

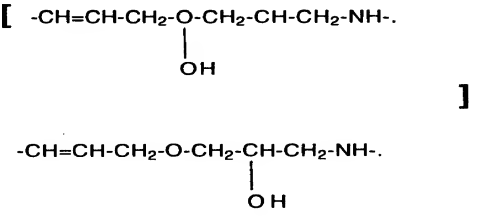
wherein [if B is purine, A is attached to the 8-position of the purine,] if B is 7-deazapurine, A is attached to the 7-position of the 7-deazapurine, and if B is pyrimidine, A is attached to the 5-position of the pyrimidine, and wherein either z is H- or HO- and x and y together form the moiety

or x is HO- and y and z together form the moiety


; and

(b) detecting said compound so as to identify said hormone receptor sites.

183. (Amended) The method of claim 181 wherein the linkage group comprises the moiety



Add new claims 185-187 as follows:

-- 185. (New) The method of claim 130 wherein said microorganism is Streptococcus pyrogenes or Neisseria meningitidis and said antibiotic is penicillin. --

-- 186. (New) The method of claim 130 wherein said microorganism is Staphylococcus aureus, Candida albicans, Pseudomonas aeruginosa, Streptococcus pyrogenes, or Neisseria gonorrhoeae and said antibiotic is a tetracycline. --

-- 187. (New) The method of claim 130 wherein said microorganism is Mycobacterium tuberculosis and said antibiotic is an aminoglycoside. --

Cancel claim 184.

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